

Program Description/Textbook or Print Instructional Material

Vendor:	Glencoe/McGraw-Hill	Web Address:	http://www.glencoe.com
Title:	TECHNOLOGY IN ACTION		
Author:	Thode, Thode	Copyright:	2002
ISBN:	0078224896	Course/Content Area:	EXPLORING INDUSTRIAL TECH
Intended Grade or Level:	6-8	Readability Level:	7 Fry
List Price:	N/A	Lowest Wholesale Price:	32.49

Level of Accommodations (Level One, Two or Three)

If Level Two or Three, please provide rationale for not meeting Level One Compliance: The cost of compliance at any level is too high given the low enrollment in this curriculum area.

FEATURES*

***DISCLAIMER:** The features of each book or program were developed by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

Content

Technology in Action presents all of the fundamental concepts of a middle school general introduction to technology program. The active learning approach of *Technology in Action* teaches students what technology is how it affects their lives. Learners will use knowledge from other subject areas to solve problems, design and build things based on their creative ideas, and discover how products of technology have made their lives better. Designing and problem solving are important concepts practiced in *Technology in Action*. Each Chapter has from 2-4 hands-on Action Activities ranging from word processing a document to programming a robot

Student Experiences

Technology in Action is designed to help all students develop their understanding of technology, apply their design and problem solving skills, and think how technology makes our lives easier. Students will be involved and actively participating as an individual or in a cooperative group doing the Action Activity. The use of in-text questions continually involves students, and asks them how the particular content links to their lives.

Assessment

Technology in Action includes a variety of assessment instruments to support instruction. Students not only can check their own understanding by doing the TechCheck questions at the end of each Section, but they can apply what they are learning as they do the Action Activities. Students can also review and self-assess doing the end of Chapter Review & Activities. Teachers have a formal testing program available for each Chapter in the Teacher Resource Guide.

Organization

The 20 Chapters of *Technology in Action* are divided into Sections. Each Section has clearly defined Things to Explore and TechnoTerms. Easy-to-follow headings, single column writing, the use of illustrations and features makes the program visually appealing. The feature TechnoFact provides interesting side-margin content. Science, Mathematics and Communications Connections help students link technology to other core subjects. Two to three page long Action Activities provide a connection to the student's real world, provides directions how to draw a design brief, provides materials list, reminds students of Safety First, and gives step-by-step procedures what to do. A wrap-up Evaluation allows students to evaluate their own work, but think into the next level as well. Each Section ends in TechCheck, each Chapter concludes with Review & Activities where students answer comprehension questions, apply critical thinking, explore Cross-Curricular Extensions, and Explore Careers. A complete Glossary and Index complete the text.

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Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

Free, 1 Per Teacher: Teacher Resource Guide, Performance-Based CD-ROM

- **Available Ancillary Materials**

All Items Listed Above as Gratis Items

RESEARCH DATA/EVIDENCE OF EFFECTIVENESS**

****DISCLAIMER:** The Research Data/Evidence of Effectiveness was provided by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

Research Data

During the planning stages for this book, research was done to provide up-to-date material covering the different areas of technology. Careful planning and research by the authors involved actual classroom use of the Action Activities. Care was taken to include the most up-to-date information, to do careful fact checking and research for technical accuracy.



Group V - Career/Technical Vocational/Practical Living Education Instructional Materials Evaluation Tool Technology Education



Title: Technology in Action \$32.49

Publisher: Glencoe McGraw-Hill

Item Evaluated: Text/Teacher Resource Guide/Interactive CD-ROM

Copyright Date: 2002

Evaluator: Kay Turner

Content Level: 6-8th;

Date of Evaluation 7/28/03

Level of Alternative Format

Level 1 – Full Compliance

Level 2 – Provisional Compliance

Level 3 – Marginal Compliance

This section completed by Exceptional Children Services

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book, material or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/ Instructional Materials Review Team completed each evaluation form during the week of July 28-Aug. 1, 2003. In order to maintain the integrity of the of the review team's comments, editing was limited to spelling and punctuation.

Recommendations:

☒ Recommended by reviewers to State Textbook Commission

☐ Not recommended by reviewers to State Textbook Commission

Publisher's Explanation of Reviewer's Comments: By action of the State Textbook Commission, publishers are provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the evaluation.



**Group V - Career/Technical
Vocational/Practical Living Education
Instructional Materials Evaluation Tool
Technology Education**



Title: Technology In Action		Glencoe Mcraw-Hill
Technology Management Summary Data:	20 possible points	__19__ points earned
Technology Management Comments:		
Technology Presentation/Interface Summary Data:	40 possible points	__31__ points earned
Technology Presentation/Interface Comments:		
Content Summary Data:	20 possible points	__17__ points earned
Content Comments:		
Instruction & Management Summary Data	52 possible points	__49__ points earned
Instruction & Management Comments:		
Organization & Structure Summary Data	36 possible points	__34__ points earned
Organization & Structure Comments:		
Resource Material Summary Data	40 possible points	__32__ points earned
Resource Material Comments:		



Group V - Career /Technical & Vocational/Practical Living

Electronic Instructional Media Review Form

Stand Alone/Independent or Integrated Software for Technology Education



Equipment (circle or change fill color)	Grade Level (circle or change fill color)	Audience (circle or change fill color)	Format (circle or change fill color)	Cost _____	
Windows	Primary	Individual	Stand Alone/Independent	___x___ single copy	_____ site license
Macintosh	Intermediate		Integrated	_____ network version	_____ school version
CD-ROM	Middle		Supplemental	___lab pack of ___ copies	_____ online
DVD	High	Small Group	In lieu of basal test		
Sound		Large Group			
Other					

If other, explain _____

Type of Software: Check all that apply	_____ Simulation	_____ Management	_____ Interdisciplinary	_____x_ Problem Solving	_____ Tutorial
__x__ Exploratory	__x__ Creativity	__x__ Drill and Practice	__x__ Critical Thinking	_____ Utility	_____ Other:

Rating Scale:	3—Some of the time	1—None of the time
4—All or the time	2—Minimally	0— Not applicable

Management	Rating
Allows customizing for individual learning needs.	4
Allows students to exit and resume at a later time.	3
Keeps a students performance record, where needed.	4
Allows control of various aspects of the software (e.g., turning sound off).	4
Allows for printed reports.	4
Comments:	Total
	19

Presentation/Interface	Rating
Presents material in an organized manner.	3
Has consistent, easy-to-use, on-screen instructions.	3
Has developmentally correct presentation format.	4
Adapts to different learning environments (learning styles/multiple intelligences, etc.)	3
Accessible for special needs students.	3
Runs smoothly, without long delays.	3
Presents easy-to-view text and graphics.	3
Presents easy-to-hear and understand sounds.	3
Avoids unnecessary screens, sounds, and graphics.	3
Provides immediate, appropriate feedback.	3
Comments:	Total
	31

Content—Technology Education	Rating
Nature of Technology	4
Technology and Society	4
Design	4
Abilities for a Technological World	4
The Design World	4
Comments:	Total 17

Rating Scale:	2—Minimally
4—All or the time	1—None of the time
3—Some of the time	0— Not applicable

Instruction and Assessment	Rating
Identifies a Sense of Purpose	4
Builds on Student Ideals	4
Engages Students	4
Develops Technology Ideas	4
Promotes Student Thinking	4
Assesses Student Progress	4
Enhances The Learning Environment	4
Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.	4
Commonwealth Accountability Testing System (CATS) "like" Assessment is provided	3
Variety of Assessments (diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer performance, portfolio prompts) is included.	3
Includes activities and opportunities for integration of technology.	4
Reflects researched-based practices (e.g. hands-on activities, technology, problem-solving situations)	4
Differentiation techniques and activities suggested.	3
Comments:	Total 49

Rating Scale:	3 – Some potential for learning	1 - Not present
4 – High potential for learning	2 – Little potential for learning	0 – Not applicable

Organization and Structure	Rating
Organization is logical and allows for spiraling of content.	3
Vocabulary and key terms are clearly defined and easily accessible within each lesson.	4
Visual illustrations (e.g. graphs, charts, models) and examples are clearly presented and content-related.	4
Illustrations and language reflect diversity (e.g. racial, ethnic, cultural, age, gender, disabilities).	4
Legible type, length of lines, spacing, and page layout and width of margins contribute to overall appearance and use.	4
Student materials seem durable and conducive to daily use.	3
Includes sufficient glossary, index and appendices.	4
Employs accurate grammar and spelling	4
Organization of material can be effectively used with Standards Based Units, Core Content and Program of Studies.	4
Comments:4	Total 34

Resource Materials	Rating
Teacher materials coordinate easily with student materials (e.g. additional resources included at point of need, student pages shown, integration of technology indicated)	4
Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.	3
Extension activities including adaptations and accommodations for students with special needs.	2
Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections with career and/technology and references (e.g. solution manuals, study guides)	4
Suggestions are made for integration of themes and /or interdisciplinary instruction.	4
Integration opportunities suggested and examples given.	4
Teacher resources are available online.	4
Online resources available – Repeat of information in text.	4
Online resources available – Practice skills only.	0
Online resources available – New application materials.	3
Comments:	Total 32

Rating Scale:	
4—All or the time	2—Minimally
3—Some of the time	1—None of the time
	0— Not applicable